

AMENDMENTS IN THE CLAIMS

1. (Currently Amended) A method for providing centralized access to instrumentation count event information generated by simulation testing of [[a]] hardware description language (HDL) simulation models, ~~wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server,~~ said method comprising:

for each of one or more of said HDL simulation models, generating an entity list ~~within a simulation client, wherein said entity list~~ that includes an identifier for each design entity within said hardware the simulation model that has at least one instantiated instrumentation count event;
~~delivering said entity list from said simulation client to said instrumentation server;~~ and
associating each of the design entity identifiers within said entity list with [[an]] identifiers for one or more of said hardware HDL simulation models in which the design entity is instantiated within said instrumentation server such that instrumentation count event information is accessible ~~from said instrumentation server by individual~~ using design entity information.

2. (Currently Amended) The method of claim 1, wherein said entity list is generated during model build processing of said ~~hardware~~ HDL simulation models prior to simulation of said ~~hardware~~ HDL simulation models ~~by said simulation client~~.

3. (Currently Amended) The method of claim 1, wherein said associating each of the design entity identifiers within said entity list ~~to an~~ with identifiers for one or more of said HDL simulation models in which the design entity is instantiated ~~identifier~~ comprises generating a translation table that ~~includes entries indexed in accordance with said indexes the~~ design entity identifiers included in the entity lists in accordance with the HDL simulation models in which the design entities are instantiated.

4. (Cancelled)

5. (Currently Amended) The method of claim 1, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, said method further comprising:

simulating said ~~hardware~~ HDL simulation model within a simulation client;
delivering an aggregate count event packet from said simulation client to said instrumentation server, wherein said aggregate count event packet includes count event data recorded during said simulation; and
within said instrumentation server, storing said count event data within cumulative count data storage files.

6. (Currently Amended) The method of claim 5, wherein said storing said count event data within cumulative count data storage files further comprises:

associating said count event data with a specified time period within a higher level count event directory; and

associating said count event data with a specified ~~hardware~~ HDL simulation model within a lower level directory, wherein said lower level directory is subsumed by said higher level directory such that count event data can be queried first by time and second by ~~hardware~~ HDL simulation model identity.

7. (Currently Amended) A system for providing centralized access to instrumentation count event information generated by simulation testing of ~~[[a]] hardware description language (HDL) simulation models~~, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, said system comprising:

~~processing means for generating that, for each of one or more of said HDL simulation models, generates an entity list within a simulation client, wherein said entity list that includes an identifier for each design entity within said hardware simulation model that has at least one instantiated instrumentation count event;~~

~~processing means for delivering said entity list from said simulation client to said instrumentation server; and~~

processing means for associating each of the design entity identifiers within said entity list with [[an]] identifiers for one or more of said hardware HDL simulation models in which the design entity is instantiated ~~within said instrumentation server~~ such that instrumentation count

event information is accessible ~~from said instrumentation server by individual~~ using design entity information.

8. (Currently Amended) The system of claim 7, wherein said entity list is generated during model build processing of said ~~hardware~~ HDL simulation models prior to simulation of said ~~hardware~~ HDL simulation models ~~by said simulation client~~.

9. (Currently Amended) The system of claim 7, further comprising processing means for generating a translation table that ~~includes entries indexed in accordance with said~~ indexes the design entity identifiers included in the entity lists in accordance with the HDL simulation models in which the design entities are instantiated.

10. (Cancelled)

11. (Currently Amended) The system of claim 7, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, said method further comprising:

processing means for simulating said ~~hardware~~ HDL simulation model within a simulation client;

processing means for delivering an aggregate count event packet from said simulation client to said instrumentation server, wherein said aggregate count event packet includes count event data recorded during said simulation; and

processing means within said instrumentation server for storing said count event data within cumulative count data storage files.

12. (Currently Amended) The system of claim 11, wherein said processing means for storing said count event data within cumulative count data storage files further comprises:

processing means for associating said count event data with a specified time period within a higher level count event directory; and

processing means for associating said count event data with a specified ~~hardware~~ HDL simulation model within a lower level directory, wherein said lower level directory is subsumed

by said higher level directory such that count event data can be queried first by time and second by ~~hardware~~ HDL simulation model identity.

13. (Currently Amended) A ~~computer program product~~ computer-readable medium having encoded thereon computer-executable instructions for providing centralized access to instrumentation count event information generated by simulation testing of ~~[[a]]~~ hardware description language (HDL) simulation models, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, said ~~computer program product~~ computer-executable instructions performing a method comprising:

~~program instruction means for~~ for each of one or more of said HDL simulation models, generating an entity list ~~within a simulation client, wherein said entity list that~~ includes an identifier for each design entity within said ~~hardware~~ the simulation model that has at least one instantiated instrumentation count event;

~~program instruction means for delivering said entity list from said simulation client to said instrumentation server; and~~

~~program instruction means for~~ associating each of the design entity identifiers within said entity list with [[an]] identifiers for one or more of said hardware HDL simulation models in which the design entity is instantiated within said instrumentation server such that instrumentation count event information is accessible ~~from said instrumentation server by individual~~ using design entity information.

14. (Currently Amended) The ~~computer program product~~ computer-readable medium of claim 13, wherein said entity list is generated during model build processing of said ~~hardware HDL~~ simulation models prior to simulation of said ~~hardware HDL~~ simulation models ~~by said simulation client.~~

15. (Currently Amended) The ~~computer program product~~ computer-readable medium of claim 13, ~~further comprising program instruction means for~~ wherein said associating each of the design entity identifiers within said entity list with identifiers for one or more of said HDL simulation models in which the design entity is instantiated comprises generating a translation

table that ~~includes entries indexed in accordance with said~~ indexes the design entity identifiers included in the entity lists in accordance with the HDL simulation models in which the design entities are instantiated.

16. (Cancelled)

17. (Currently Amended) The ~~computer program product~~ computer-readable medium of claim 13, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, said method further comprising:

~~program instruction means for~~ simulating said ~~hardware~~ HDL simulation model within a simulation client;

~~program instruction means for~~ delivering an aggregate count event packet from said simulation client to said instrumentation server, wherein said aggregate count event packet includes count event data recorded during said simulation; and

~~program instruction means~~ within said instrumentation server, ~~[[for]]~~ storing said count event data within cumulative count data storage files.

18. (Currently Amended) The ~~computer program product~~ computer-readable medium of claim 17, wherein said ~~program instruction means for~~ storing said count event data within cumulative count data storage files further comprises:

~~program instruction means for~~ associating said count event data with a specified time period within a higher level count event directory; and

~~program instruction means for~~ associating said count event data with a specified ~~hardware~~ HDL simulation model within a lower level directory, wherein said lower level directory is subsumed by said higher level directory such that count event data can be queried first by time and second by ~~hardware~~ HDL simulation model identity.

19. (New) The method of claim 1, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, and wherein said generating an entity list is performed by one or more of said simulation clients.

20. (New) The method of claim 1, wherein said simulation testing is performed within a batch simulation farm by multiple simulation clients communicating with an instrumentation server, and wherein said associating design entity identifiers within said entity list with identifiers for one or more said HDL simulation models is performed by said instrumentation server.